

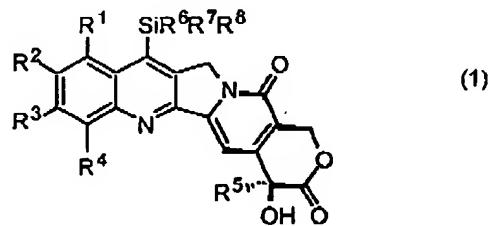
DENNIS P. CURRAN et.al.
Application No. 10/629,432

AMENDMENTS TO THE CLAIMS:

This listing of claims, in which claims 1-13 were previously canceled without prejudice and claims 14, 26 and 28-40 are currently amended will replace all prior versions and listings in the application:

1.-13. Canceled.

14. (Currently Amended) A method of treating a cancer patient with malignant melanoma, stomach cancer, breast cancer, ovarian cancer, lung cancer, colorectal cancer or [[a]] leukemia patient, comprising the step of administering a pharmaceutically effective amount of a compound of Claim 1 having the following formula or a pharmaceutically acceptable salt thereof:



wherein R¹ and R² are independently the same or different and are hydrogen, an alkyl group, an aminoalkyl group, an alkylaminoalkyl group, a haloalkyl group, a hydroxyalkyl group, an alkenyl group, an alkynyl group, an alkoxyl group, an aryloxy group, a carbamoyloxy group, a halogen, a hydroxyl group, a nitro group, a cyano group, an azido group, a formyl group, a hydrazino group, -C(O)R^f, wherein R^f is an alkyl group, a haloalkyl group, an alkoxyl group, an amino group or a hydroxyl group, an amino group,

an alkylamino group, a dialkylamino group, -SR^c, wherein R^c is hydrogen, -C(O)R^f, an alkyl group, or an aryl group, -OC(O)R^d or -OC(O)OR^d, wherein R^d is an alkyl group; or

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R¹ and R² together form a group of the formula -O(CH₂)_nO- wherein n represents the integer 1 or 2;

R³ is H, F, a halogen atom, a nitro group, an amino group, a hydroxyl group, or a cyano group; or R² and R³ together form a group of the formula -O(CH₂)_nO- wherein n represents the integer 1 or 2;

R⁴ is H, F, a C₁₋₃ alkyl group, a C₂₋₃ alkenyl group, a C₂₋₃ alkynyl group, or a C₁₋₃ alkoxy group;

R⁵ is a C₁₋₁₀ alkyl group, or a propargyl group; and

R⁶, R⁷ and R⁸ are independently a C₁₋₁₀ alkyl group, a C₂₋₁₀ alkenyl group, a C₂₋₁₀ alkynyl group, an aryl group or a -(CH₂)_NR⁹ group, wherein N is an integer within the range of 1 through 10 and R⁹ is a hydroxyl group, alkoxy group, an amino group, an alkylamino group, a dialkylamino group, a halogen atom, a cyano group or a nitro group;

wherein provided that wherein one of R¹, R², R³ and R⁴ is H, a halogen, an alkyl group, an amino group or a nitro group at least one or one other of R¹, R², R³ and R⁴ is not H, a halogen, or an alkyl group, an amino group or a nitro group.

15. (Previously presented) The method of Claim 14, wherein R⁴ is H.

16. (Previously presented) The method of Claim 14, wherein R¹ and R² are independently the same or different and are H, a hydroxy group, a halogen, an amino group, a nitro group, a cyano group, a C₁₋₃ alkyl group, a C₂₋₃ alkenyl group, a C₂₋₃ alkynyl group or a C₁₋₃ alkoxy group.

17. (Previously presented) The method of Claim 14, wherein R¹ and R² are independently the same or different and are a C₁₋₃ perhaloalkyl group, a C₁₋₃ aminoalkyl group, a C₁₋₃ alkylamino group or a C₁₋₃ dialkylamino group.

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18. (Previously presented) The method of Claim 14, wherein R¹ and R² are independently the same or different and are H, a methyl group, an amino group, a nitro group, a cyano group, or a hydroxyl group.

19. (Previously presented) The method of Claim 14, wherein R¹ and R² are independently the same or different and are a methylamino group, a dimethylamino group, an ethylamino group, a diethylamino group, a hydroxymethyl group, an aminomethyl group, a methylaminomethyl group, or a dimethylaminomethyl group.

20. (Previously presented) The method of Claim 14, wherein R³ is F, an amino group, or a hydroxyl group.

21. (Previously presented) The method of Claim 14, wherein R⁵ is an ethyl group.

22. (Previously presented) The method of Claim 14, wherein R⁶, R⁷ and R⁸ are independently the same or different and are a C1-6 alkyl group, a phenyl group or a -(CH₂)_NR⁹ group, wherein N is an integer within the range of 1 through 6 and R⁹ is a hydroxyl group, alkoxy group an amino group, an alkylamino group a dialkylamino group, a halogen atom, a cyano group or a nitro group.

23. (Previously presented) The method of Claim 14, wherein R⁶, R⁷ and R⁸ are methyl groups.

24. (Previously presented) The method of Claim 14, wherein R² and R³ form a methylenedioxy group, or a 1,2-ethylenedioxy group.

25. (Previously presented) The method of Claim 14, wherein R³ is F.

26. (Currently Amended) The method of Claim 14, wherein the compound is ~~7-trimethylsilyl camptothecin, 7-trimethylsilyl-10-acetoxy camptothecin, 7-trimethylsilyl-10-hydroxy camptothecin, 7-trimethylsilyl-11-fluoro camptothecin,~~

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~~7-trimethylsilyl-9-fluoro camptothecin, 7-trimethylsilyl-10-fluoro camptothecin,~~
~~7-trimethylsilyl-10-amino camptothecin, 7-trimethylsilyl-11-amino camptothecin,~~
7-trimethylsilyl-11, 12-diflouro camptothecin, 7-trimethylsilyl-9, 10-diflouro
camptothecin, 7-trimethylsilyl-10-amino-11-fluoro camptothecin,
~~7-tert-butyldimethylsilyl camptothecin, 7-tert-butyldimethylsilyl-10-acetoxy~~
~~camptothecin, 7-tert-butyldimethylsilyl-10-hydroxy camptothecin, 7-dimethyl-~~
~~3-cyanopropylsilyl camptothecin, 7-dimethyl-3-halopropylsilyl camptothecin,~~
~~7-triphenylsilyl camptothecin, 7-triethylsilyl camptothecin, 7-dimethylnorpinylsilyl~~
~~camptothecin.~~

27. (Previously presented) The method of Claim 14, wherein R² is a hydroxy group.

28. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R⁴ is H.

29. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R¹ is H, a hydroxyl group, a halogen, an amino group, a nitro group, a cyano group, a C₁₋₃ alkyl group, a C₂₋₃ alkenyl group, a C₂₋₃ alkynyl group or a C₁₋₃ alkoxy group.

30. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R¹ is a C₁₋₃ perhaloalkyl group, a C₁₋₃ aminoalkyl group, a C₁₋₃ alkylamino group or a C₁₋₃ dialkylamino group.

31. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R¹ is H, a methyl group, an amino group, a nitro group, a cyano group, or a hydroxyl group.

32. (Currently Amended) The ~~compound~~ method of Claim 27, wherein R¹ is a methylamino group, a dimethylamino group, an ethylamino group, a diethylamino group, a hydroxymethyl group, an aminomethyl group, a methylaminomethyl group, or a dimethylaminomethyl group.

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33. (Currently Amended) The compound method of Claim 27, wherein R³ is F, an amino group, or a hydroxyl group.

34. (Currently Amended) The compound method of Claim 27, wherein R⁵ is an ethyl group.

35. (Currently Amended) The compound method of Claim 27, wherein R⁶, R⁷ and R⁸ are independently the same or different and are a C₁-6 alkyl group, a phenyl group or a -(CH₂)_NR⁹ group, wherein N is an integer within the range of 1 through 6 and R⁹ is a hydroxyl group, alkoxy group an amino group, an alkylamino group a dialkylamino group, a halogen atom, a cyano group or a nitro group.

36. (Currently Amended) The compound method of Claim 27, wherein R⁶, R⁷ and R⁸ are methyl groups.

37. (Currently Amended) The compound method of Claim 27, wherein R² and R³ form a methylenedioxy group, or a 1,2-ethylenedioxy group.

38. (Currently Amended) The compound method of Claim 27, wherein R³ is F.

39. (Currently Amended) The compound method of Claim 27, wherein the compound is 7-trimethylsilyl-10-hydroxy camptothecin or 7-tert-butyldimethylsilyl-10-hydroxy camptothecin.

40. (Currently Amended) The compound method of Claim 27, wherein the compound is 7-tert-butyldimethylsilyl-10-hydroxy camptothecin.